

SEIKO ASTRON

WATCH CATALOGUE 2018-2019

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<p>1881 K. Hattori, predecessor of today's Seiko Holdings Corporation, established.</p> <p>1892 Seikosha clock supply factory established; production of wall clocks begins. Seikosha builds the first pocket watch.</p> <p>1913 Production of Laurel, the first wristwatch made in Japan begins.</p> <p>1953 SEIKO sponsors Japan's first TV commercial.</p> <p>1959 SEIKO commercializes quartz clocks for broadcasting use.</p> <p>1964 SEIKO develops the portable quartz chronometer and Seiko serves as Official Timer for the "Games of the XVIII Olympiad" held in Tokyo.</p> <p>1968 SEIKO achieves the highest ever score in the Geneva competition and is awarded the "best mechanical wrist chronometer".</p>	<p>1969 Introduction of cal. 6139, the world's first automatic chronograph watch equipped with both vertical clutch and column wheel. Introduction of the world's first quartz watch, "SEIKO Quartz Astron" cal. 3500.</p> <p>1982 Introduction of the world's first TV watch cal. T001.</p> <p>1988 Introduction of the world's first "Auto Quartz" watch cal. 7M42. (later renamed as "Kinetic").</p> <p>1992 Introduction of 1/100th analogue quartz chronograph watch cal. 7T59.</p> <p>1999 Introduction of the world's first Spring Drive watch cal. 7R68 (hand winding). Introduction of the Ultimate Kinetic Chronograph cal. 9T82.</p> <p>2005 Introduction of the Kinetic Perpetual cal. 7D48. Introduction of the Spring Drive cal. 5R series (automatic winding).</p>
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<p>2006 Introduction of the world's first watch with electrophoresis display module cal. G510.</p> <p>Introduction of the Credor Spring Drive Sonnerie cal. 7R06. Suggested retail price: 15 million Japanese Yen.</p>	<p>2012 SEIKO introduces the world's first Solar Powered GPS watch that supports all internationally recognised timezones.</p>
<p>2007 Introduction of the Kinetic Direct Drive cal. 5D44.</p> <p>Introduction of the Spring Drive Chronograph cal. 5R86 equipped with both vertical clutch and column wheel.</p>	<p>2013 100 years of SEIKO Wrist watches marked by a collection of Special Edition models.</p>
<p>2009 Introduction of the Chronograph Perpetual.</p>	<p>2014 SEIKO introduces the world's first Solar GPS watch with a chronograph.</p>
<p>2010 World's first EPD watch with an active matrix system.</p>	<p>2015 Astron GPS Solar Dual Time with AM & PM indicator is introduced.</p>
<p>2011 SEIKO's 130th Anniversary</p> <p>Served as Official Timer of the IAAF World Championships Daegu 2011.</p>	<p>SEIKO celebrates 50 years of diver's watches.</p>
	<p>2016 Astron GPS Solar World Time introduced.</p>
	<p>2017 Astron GPS Solar Dual Time Calendar introduced.</p>

The SEIKO website is designed to provide customers, retailers and consumers with instant access to information about SEIKO. Log onto www.seikowatches.com and click the following links to find out all there is to know about the world's leading watch manufacturer.

Products – Learn more about the SEIKO Premium Collection or explore the entire SEIKO product range.

Support – Designed with retailers in mind, this section provides service information, instruction manuals you can download and 'frequently asked questions' to aid in trouble shooting, procedures for sending back repairs for prompt and efficient service.

About Us – Discover SEIKO's history from humble beginnings in 1881 and the rise that carried SEIKO to new heights and international renown. Learn about corporate structure, global networks and SEIKO's extensive involvement in sports timing.

SEIKO will continue to grow and evolve and so too will www.seikowatches.com, so keep checking for regular updates. Please send any comments you have to info@seiko.com.au, all feedback is welcome.

www.seikowatches.com

BELOW ARE THE ABBREVIATIONS AND SYMBOLS YOU WILL FIND IN THIS CATALOGUE**ADVERTISED MODEL**

— Advertised model



Solar



New release model



Stainless steel case



Water resistance



Titanium



Ceramic

SSE041J \$4500 — Reference number and price

GPS SOLAR DUAL TIME — Watch type

TCE.TIHICDCWR, (10BAR) — Case material (refer to Abbreviations page)

SAPPHIRE GLASS — Glass type

M0XE117H0 — Band reference

8X53 — Calibre Number

WATER RESISTANCE USAGE

							
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EVERYDAY LIFE (International Standard ISO 2281) Recommended Usage

Splash Resistant	●	●	●	●	●	●	●
Rain Resistant	●	●	●	●	●	●	●

SWIMMING/WATERSPORTS (International Standard ISO 2281) Recommended Usage

Water-related Work		●	●	●	●	●	●
Swimming		●	●	●	●	●	●
Watersports (Snorkelling, Surfing, etc)			●	●	●	●	●

DIVING (International Standard ISO 6425) Recommended Usage

Scuba Diving						●	●
Saturation Diving							●

18KYG	18K yellow gold, 18KYG middle, and 18KYG back
AHC	All Hard Coat case and back
ALSGP	All Light SEIKO Gold Colour Plated case
ASG	All SEIKO Gold Plated case
ATI	All Titanium case
ATIHICDC	All TI case with super hard coating
BTIHC.MBTIHC	All high intensity titanium
CE	Ceramics
FRP	Fibre Reinforced Plastic
GPD^P	Combined SGP and PDP middle with bezel and SS back
GPHC	Combined SGP and HC middle with bezel and SS back
HC	Hard Coating SS middle with bezel and SS back
HC.SSHC	HC bezel and middle with combined SS and HC back
HGC	Hard Gold Coating middle with bezel and SS back
LSGP	Light colour SGP
MHC	HC middle with SS bezel and back
MSSGP	SS bezel, combined SS and SGP middle and SS back
MSSPCD	SS bezel combined SS and plastic middle with SS back
MSS.HC	SS middle with HC bezel and back
PDP	Palladium plated middle with bezel and SS back
SGP	SEIKO Gold Colour Plate and Stainless Steel back
SS	Stainless Steel case
SSGP	Combined SS and SGP middle with bezel and SS back
SSH^C	Combined SS and HC middle with bezel and SS back
TCE.GP	CE bezel, SGP middle, and SGP back
TCE.HICDC	Ceramic bezel, super hard coating SS middle and back
TCE.HICDCG	Ceramic bezel, super hard coating middle, SGP, SS back
TCE.HICDN	Ceramic bezel, SS with super black hard coating, SS back
TCE.MTIHICDC	CE bezel, TI with super hard coating middle, and TI with super hard coating back
TCE.TIHC	CE bezel, TIHC middle and TIHC back
TCE.TIHCDC	Ceramic bezel, TI with super hard coating middle and back
TCE.TIHICDGWR	Ceramic bezel, TI with Gold Colour super hard coating middle and back
TCE.TIHICDN	Ceramic bezel, TI with super black hard coating middle and back
TGPCE.MGP	Combined SGP and Ceramic bezel, SGP middle and SS back
TGPDP	Combined SGP and PDP bezel, SS middle and SS back
TGP.MGPHC	SGP bezel, SGP and HC middle and SS back
TGP.MSSGP	SGP bezel, combined SS and SGP middle and SS back
TGP.TIHCC^E	SGP bezel, combined TI, HC, and CE middle (No case back as it's a one piece case model)
TGPTI.TI	Combined TI and SGP bezel, TI middle and TI back
THC	HC bezel, SS middle and SS back
THC.BTI	HC bezel, BTI (Bright Titanium) middle and BTI back
THC.MHCPCDP	HC bezel, combined HC and plastic middle with SS back
THC.MSSCE	HC bezel, combined SS and CE middle, and SS back
THC.TIHCC^E	CE Outer Case, TI HC Inner Case
THGMCETIHG	HGC bezel, combined Ceramics, TI and HGC middle and combined Ceramics, TI and HGC back
TI	Titanium
TPDP	PDP bezel, SS middle and SS back
TSGP	Combined SS and SGP case and SS back
TSSCE	Combined SS and Ceramic bezel, SS middle and SS back
TSSGP	Combined SS and SGP bezel, SS middle and SS back
TSSGP.GP	SSGP bezel, SGP middle, and SGP back
TSSH^C	Combined SS and HC bezel, SS middle and SS back
TSSHC.HICDC	SSH ^C bezel, SS with super hard coating, and SS with super hard coating back
TTIHC.MTIHICDC.TI	Ti & HC bezel, Ti & HC middle, Ti Back
TTIHC.TI	Combined TI and HC bezel, TI middle and TI back
WR	Water Resistant
XL	Lumibrite hands and hour markers

ACCURATE TIME, HARNESSING THE POWER OF GPS

Once a day when fully charged, Seiko Astron receives the time signal automatically and, on demand, connects to four or more of the GPS satellites that orbit the earth*1, thus pinpointing its position and identifying the time zone and the exact time*2*3. The hands adjust automatically to the correct local time with atomic clock precision.

**NO BATTERY CHANGE
NEEDED. EVER**

Astron is entirely self-sustaining and takes all the power it needs just from light. There is no need, ever, to change a battery.

**PERPETUAL CALENDAR CORRECT
UP TO FEBRUARY 2100**

Astron has a perpetual calendar that is accurate up to February 2100, irrespective of leap years.

IN-FLIGHT MODE (✈)

In order to avoid any interference with the operation of electronic devices in an airplane, in-flight mode is available when boarding a plane. In the in-flight mode, the GPS signal reception function will not work.

DAYLIGHT SAVING TIME (DST) FUNCTION

In areas where Daylight Saving Time (DST) applies, the time can be adjusted manually.

MULTI-INDICATOR

The multi-indicator has four functions:

- GPS signal reception display
- Power reserve indication
- In-flight mode (✈) on/off indication
- DST (Daylight Saving Time) on/off indication



THE WORLD'S FIRST GPS SOLAR WATCH

Thanks to the creation of an ultra-low consumption GPS module, Seiko has been able to create a watch that can receive GPS signals and identify time zone, time and date using the global network of GPS satellites. This breakthrough timepiece inherits the name of the Astron. Like its celebrated 1969 predecessor which was the world's first quartz watch, the new Astron ushers in a new age of timekeeping technology.



THE SECRET IS IN ENERGY MANAGEMENT

Only Seiko's advanced energy-efficiency technology could invent the miniature GPS receiver that requires so little energy to receive GPS signals from four or more satellites. And only Seiko's advanced IC circuitry expertise could make it possible for watch to see the world as divided into one million 'squares' and allocate a time zone to each.

SEIKO'S HISTORY OF ENERGY MANAGEMENT

- 1969: The first Astron was the world's first quartz watch. It was made possible by a low-drain stepping motor.
- 1977: Seiko made its first ever solar watch, using just the power of light.
- 1988: Seiko Kinetic was the first watch to convert mechanical energy into electrical with a rotor that spins at up to 100,000 rpm.
- 1999: A mechanical watch with a new type of escapement, Spring Drive is a technology unique to Seiko. It uses so little electrical power that, if everyone on earth wore Spring Drive, the total energy used would power just one light bulb.
- 2012: The new Astron: The world's first GPS solar watch, which is so energy efficient that it can connect to the GPS network using just the power of light.

*1 The watch has to be under an open sky with good visibility, where the GPS signals can easily be received.

*2 Cal.7X52: Time zone data as of January 2012. Cal.8X82: Time zone data as of January 2014.
Changes to time zones occurring after these dates are not programmed and manual adjustment may be required.

*3 If the time zone is adjusted near a time zone boundary, the time of the adjacent time zone may be displayed. To adjust the time zone, use the manual time zone(city) selection mode.

GPS SOLAR DUAL TIME

Case Size
46.7mm

24

**SSE174J \$5200**

GPS SOLAR DUAL TIME, TCE.TIHICDNWR, (20BAR), DIVER'S, XL,
SAPPHIRE GLASS, LIMITED EDITION NOVAK DJOKOVIC
1,500 PIECES WORLDWIDE, R020111M0, 8X53

Case Size
46.7mm

24

**SSE170J \$4900**

GPS SOLAR DUAL TIME, TCE.TIHICDGWR, (20BAR), XL,
SAPPHIRE GLASS, SPECIAL BOXING, R020111M0, 8X53

Case Size
46.7mm

24

**SSE167J \$4800**

GPS SOLAR DUAL TIME, TCE.TIHICDCWR, (20BAR), XL,
SAPPHIRE GLASS, MOTHER OF PEARL DIAL, R020111J0, 8X53

Case Size
46.7mm

24

**SSE169J \$4700**

GPS SOLAR DUAL TIME, TCE.THHICDCWR, (20BAR), XL,
SAPPHIRE GLASS, R020111J0, 8X53

GPS SOLAR DUAL TIME

Case Size
45mm

24

**SSE041J \$4500**GPS SOLAR DUAL TIME, TCE.TIHICDCWR, (10BAR), XL,
SAPPHIRE GLASS, CABOCHON CROWN,
MOXE117H0, 8X53Case Size
45mm

24

**SSE043J \$4500**GPS SOLAR DUAL TIME, TCE.TIHICDCWR, (10BAR), XL,
SAPPHIRE GLASS, CABOCHON CROWN,
MOXE118H0, 8X53Case Size
45mm

24

**SSE101J \$3800**GPS SOLAR DUAL TIME, TCE.TIHICDCW, (10BAR), XL,
SAPPHIRE GLASS, CABOCHON CROWN,
MOXF111H0, 8X53Case Size
45mm

24

**SSE055J \$3200**GPS SOLAR DUAL TIME, TCE.GPWR, (10BAR), XL,
SAPPHIRE GLASS, CABOCHON CROWN,
R01Z011P0, 8X53

GPS SOLAR DUAL TIME CALENDAR



Case Size
44.8mm

24



SSE139J \$4000

GPS SOLAR DUAL TIME CALENDAR, TCE.TIHICDCWR, (10BAR),
SAPPHIRE GLASS, M114111H0, 8X42



Case Size
45.8mm

24



SSE149J \$3000

GPS SOLAR DUAL TIME CALENDAR, TCE.HICDCWR, (10BAR), XL,
SAPPHIRE GLASS, M115111H0, 8X42



Case Size
45.5mm

24



SSE153J \$3200

GPS SOLAR DUAL TIME CALENDAR, TCEHICDGWR, (10BAR), XL,
SAPPHIRE GLASS, R01Z011P0, 8X42

GPS SOLAR WORLD TIME



Case Size
45.4mm

24



SSE159J \$2750

GPS SOLAR WORLD TIME, TCE.HICDCWR, (10BAR), XL,
SAPPHIRE GLASS, M142113H0, 8X22



Case Size
45.4mm

24



SSE161J \$2750

GPS SOLAR WORLD TIME, TCE.HICDCWR, (10BAR), XL,
SAPPHIRE GLASS, M142113H0, 8X22

PRODUCT INFORMATION MATRIX

Model Number	Calibre Type	Calibre Function	Power Reserve/Battery Life	Battery Type	Calibre Number	Display	Water Resistance	Band Reference	Glass Type	Crown	Rotating Bazel	Hand Indicators	Calendar Indicators	Luminite	Stone Set Type	Stone Set Qty	Alarm
SSE041J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0XE117H0	Sapphire	Cabochon - Pull Out	Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers				
SSE043J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0XE118H0	Sapphire	Cabochon - Pull Out	Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers				
SSE055J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	R01Z011P0	Sapphire	Cabochon - Pull Out	Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers				
SSE101J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0XF111H0	SAPPHIRE	Cabochon - Pull Out	Hour, Minute, Seconds	Date	Hands & Markers				
SSE139J	Solar - Powered By Any Light Source	GPS Dual Time Calendar	2 Year Power Reserve	N/A	8X42	Analogue	100 Metres	M114111H0	Sapphire	Pull Out	Hour, Minute, Seconds	Date					
SSE149J	Solar - Powered By Any Light Source	GPS Dual Time Calendar	2 Year Power Reserve	N/A	8X42	Analogue	100 Metres	M115111H0	Sapphire	Pull Out	Hour, Minute, Seconds	Date	Hands & Markers				
SSE153J	Solar - Powered By Any Light Source	GPS Dual Time Calendar	2 Year Power Reserve	N/A	8X42	Analogue	100 Metres	R01Z011P0	Sapphire	Pull Out	Hour, Minute, Seconds	Date	Hands & Markers				
SSE159J	Solar - Powered By Any Light Source	GPS Solar - 3 Hands	2 Years Power Reserve	N/A	8X22	Analogue	100 Metres	M142113H0	SAPPHIRE	Pull Out	Hour, Minute, Seconds	Date	Hands & Markers				
SSE161J	Solar - Powered By Any Light Source	GPS Solar - 3 Hands	2 Years Power Reserve	N/A	8X22	Analogue	100 Metres	M142113H0	SAPPHIRE	Pull Out	Hour, Minute, Seconds	Date	Hands & Markers				
SSE167J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	200 Metres	R020111J0	Sapphire	Pull-Out	Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers				
SSE169J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	200 Metres	R020111J0	Sapphire	Pull-Out	Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers				
SSE170J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	200 Metres	R020111M0	Sapphire	Pull-Out	Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers				
SSE174J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	200 Metres	R020111M0	Sapphire	Pull-Out	Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers				

PRODUCT INFORMATION MATRIX

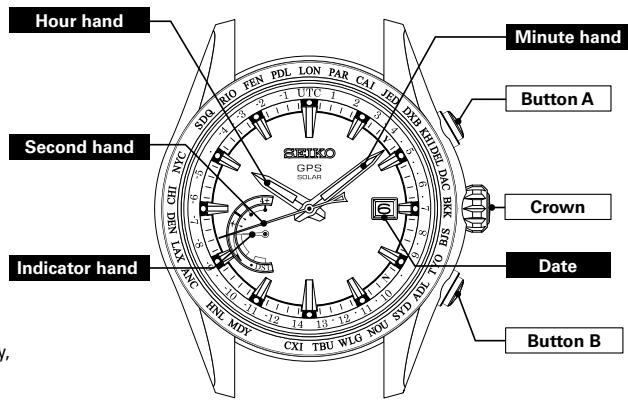
Model Number	Stopwatch	Dual Time Capability	Timer	Perpetual Calendar	Compass	Tachymetre	Telemeter	Slide Rule	World Time	Hand Winding Capability	Power Reserve Indicator	Exhibition Case Back
SSE041J		Bottom Dial Can Be Adjusted To Second Time Zone, Main Hands Can Be Manually Adjusted To Different Time Zones		Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		
SSE043J		Bottom Dial Can Be Adjusted To Second Time Zone, Main Hands Can Be Manually Adjusted To Different Time Zones		Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		
SSE055J		Bottom Dial Can Be Adjusted To Second Time Zone, Main Hands Can Be Manually Adjusted To Different Time Zones		Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		
SSE101J		Bottom Dial Can Be Adjusted To Second Time Zone, Main Hands Can Be Manually Adjusted To Different Time Zones		Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		
SSE139J		Bottom Dial Can Be Adjusted To Second Time Zone, Main Hands Can Be Manually Adjusted To Different Time Zones		Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		
SSE149J		Bottom Dial Can Be Adjusted To Second Time Zone, Main Hands Can Be Manually Adjusted To Different Time Zones		Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		
SSE153J		Bottom Dial Can Be Adjusted To Second Time Zone, Main Hands Can Be Manually Adjusted To Different Time Zones		Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		
SSE159J				Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		
SSE161J				Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		
SSE167J		Bottom Dial Can Be Adjusted To Second Time Zone, Main Hands Can Be Manually Adjusted To Different Time Zones		Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		
SSE169J		Bottom Dial Can Be Adjusted To Second Time Zone, Main Hands Can Be Manually Adjusted To Different Time Zones		Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		
SSE170J		Bottom Dial Can Be Adjusted To Second Time Zone, Main Hands Can Be Manually Adjusted To Different Time Zones		Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		
SSE174J		Bottom Dial Can Be Adjusted To Second Time Zone, Main Hands Can Be Manually Adjusted To Different Time Zones		Calendar Automatically Adjusts For Short Months and Leap Years Until February, 2100					Astron GPS Solar pinpoints your location and identifies your exact timezone by receiving GPS signals from 4 or more GPS satellites. Manual Time Adjustment is available.	Yes		

OPERATING INSTRUCTIONS

SOLAR GPS WORLD TIME (8X22)

- Solar – Powered by any light source.
- GPS Connectivity – Connect to satellites to pinpoint your position and adjust timezone accordingly*
- Flight Mode – turn on and off during flights.
- Perpetual Calendar – Adjusts the date and day of the week automatically until February 2100 including leap years and short months
- World Time
- Dual
- Power Save Mode – GPS Solar sleeps when not in sufficient light to conserve energy, and when exposed to light will wake up and relay to the current time.

* Time zone data as of March 2015. Changes to time zones occurring after this date are not programmed and manual adjustment may be required.



* Display of city name may vary depending on the model.

HOW TO ADJUST TIME USING GPS SIGNALS

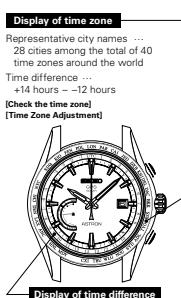
- 1) Ensure you are outdoor under an open sky with good visibility. Away from trees, buildings bridges etc. Ensure GPS Solar is out of flight mode – follow the steps detailed later in this guide.
- 2) Press and hold BUTTON A. The second hand will move to the 60 second mark and stop briefly. It will then move to the 30 second mark. Once the second hand moves to the 30 second mark release BUTTON A.
- 3) The second hand will then move around the dial pointing at the number markers indicating how many satellites it is connected to. If it is pointing at the 3 marker, it is connected to three satellites etc. A minimum of 4 satellites is required for a successful timezone adjustment. The GPS Signal and Time change can take up to 2 minutes.
- 4) After GPS Solar connects to satellites the second hand will move to Y (8 second mark) for a successful connection, or N (22 second mark) for an unsuccessful connection. The Y & N are indicated on the inner dial ring.
- 5) The main hands on GPS Solar will move to the correct time based on your position.

MANUAL TIME ZONE ADJUSTMENT & WORLD TIME FUNCTION

In places where the GPS timezone change is not possible GPS Solar can be set manually without the need to connect to a satellite. This function can also be used as a World Timer.

- 1) Pull the crown out to the first click. The second hand will move and point to the current timezone set detailed on the bezel, or inner dial ring (model dependant).
- 2) Turn the crown forward or backward and the second hand will point to the next timezone detailed on the inner ring, or city detailed on the bezel (model dependant) and instantly move the hands to that timezone.
- 3) Once you have selected your desired timezone push the crown back in flush to the case.

Use the below table to discover world timezones.



City code	Display of time difference	City name	UTC + hours
LON	UTC ★ London		0
PAR	1 ★ Paris/ ★ Berlin		+1
CAI	2 ★ Cairo		+2
JED	3 Jeddah		+3
—	• ★ Tehran		+3.5
DXB	4 Dubai		+4
—	• Kabul		+4.5
KHI	5 Karachi		+5
DEL	• Delhi		+5.5
—	• Kathmandu		+5.75
DAC	6 Dhaka		+6
—	• Yangon		+6.5
BKK	7 Bangkok		+7

City code	Display of time difference	City name	UTC + hours
BJS	8 Beijing		+8
—	• Eucla		+8.75
TYO	9 Tokyo		+9
—	• ★ Adelaide		+9.5
SYD	10 ★ Sydney		+10
—	• ★ Lord Howe Island		+10.5
NOU	11 Noumea		+11
—	• Norfolk Island		+11.5
WLG	12 ★ Wellington		+12
—	• ★ Chatham Islands		+12.75
TBU	13 Nuku'alofa		+13
—	• Baker Island		+12
CXI	14 Kirimati		+14
—	• Midway Islands		+11
MDY	—	★ Azores	-1

* The displays of city code and the time difference from UTC are subject to change depending on model.
* “-” between figures of the display of time difference shows that there is a time zone in that place.

HOW TO USE THE DAYLIGHT SAVING FUNCTION

Some areas have daylight savings where the time is set forward to gain an extra hour of sunlight. GPS Solar has an easy daylight saving function that turns daylight saving on or off.

- 1) Pull the crown out to the first click. The left indicator dial's hand will move to either DST (for Daylight Savings on) or the ‘.’ (for Daylight Savings off).
- 2) Press and hold BUTTON A for approx. 3 seconds to turn it either on or off.
- 3) The hands will move forward (on), or backward (off) one hour.
- 4) Push crown back in flush against the case.

FLIGHT MODE

GPS reception may influence the aeroplanes electronic equipment so GPS Astron has a flight mode you can activate when travelling on an aeroplane.

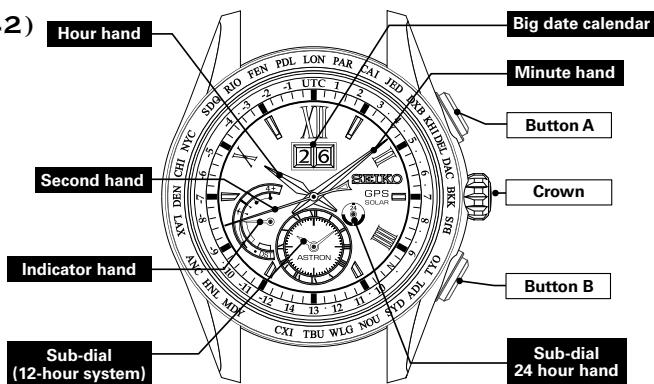
TURN FLIGHT MODE ON OR OFF

- 1) Press and hold BUTTON B for approx. 3 seconds.
- 2) The indicator hand in the left dial will move to the image of the plane located on the left side of the outer ring.
- 3) To turn flight mode off, press and hold BUTTON B for approx. 3 seconds. The hand will move back to the power reserve indicator.

SOLAR GPS DUAL TIME CALENDAR (8X42)

- Solar – Powered by any light source.
- GPS Connectivity – Connect to satellites to pinpoint your position and adjust timezone accordingly*
- Flight Mode – turn on and off during flights.
- Perpetual Calendar – Adjusts the date and day of the week automatically until February 2100 including leap years and short months
- World Time
- Dual Time function
- Power Save Mode – GPS Solar sleeps when not in sufficient light to conserve energy, and when exposed to light will wake up and relay to the current time.

* Time zone data as of January 2014. Changes to time zones occurring after this date are not programmed and manual adjustment may be required.



* Position of each display may differ depending on the model (design).

HOW TO ADJUST TIME USING GPS SIGNALS

- 1) Ensure you are outdoor under an open sky with good visibility. Away from trees, buildings bridges etc. Ensure GPS Solar is out of flight mode – follow the steps detailed later in this guide.
- 2) Press and hold BUTTON A. The second hand will move to the 60 second mark and stop briefly. It will then move to the 30 second mark. Once the small second hand moves to the 30 second mark release BUTTON A.
- 3) The second hand will then move around the dial pointing at the number markers indicating how many satellites it is connected to. If it is pointing at the 3 marker, it is connected to three satellites etc. A minimum of 4 satellites is required for a successful timezone adjustment. The GPS Signal and Time change can take up to 2 minutes.
- 4) After GPS Solar connects to satellites the second hand will move to Y (8 second mark) for a successful connection, or N (22 second mark) for an unsuccessful connection. The Y & N are indicated on the inner dial ring.
- 5) The main hands on GPS Solar will move to the correct time based on your position.

MANUAL TIME ZONE ADJUSTMENT & WORLD TIME FUNCTION

In places where the GPS timezone change is not possible GPS Solar can be set manually without the need to connect to a satellite. This function can also be used as a World Timer.

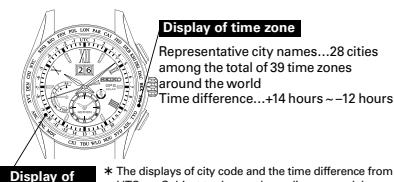
- 1) Pull the crown out to the first click. The second hand will move and point to the current timezone set detailed on the bezel, or inner dial ring (model dependant).
- 2) Turn the crown forward or backward and the second hand will point to the next timezone detailed on the inner ring, or city detailed on the bezel (model dependant) and instantly move the hands to that timezone.
- 3) Once you have selected your desired timezone push the crown back in flush to the case.

Use the below table to discover world timezones.

City code	Display of time difference	City name	UTC ± hours
LON	UTC	London	0
PAR	1	Paris/Berlin	+1
CAI	2	Cairo	+2
JED	3	Jeddah	+3
—	•	Tehran	+3.5
DXB	4	Dubai	+4
—	•	Kabul	+4.5
KHI	5	Karachi	+5
DEL	•	Delhi	+5.5
—	•	Kathmandu	+5.75
DAC	6	Dhaka	+6
—	•	Yangon	+6.5
BKK	7	Bangkok	+7

City code	Display of time difference	City name	UTC ± hours
BJS	8	Beijing	+8
—	•	PyongYang	+8.5
—	•	Eucla	+8.75
TYO	9	Tokyo	+9
ADL	•	Adelaide	+9.5
SYD	10	Sydney	+10
—	•	Lord Howe Island	+10.5
NOU	11	Nouméa	+11
WLG	12	Wellington	+12
—	•	Chatham Islands	+12.75
TBU	13	Nuku'alofa	+13
CXI	14	Kiritimati	+14
—	-12	Baker Island	-12

City code	Display of time difference	City name	UTC ± hours
MDY	-11	Midway Islands	-11
HNL	-10	Honolulu	-10
—	•	Marquesas Islands	-9.5
ANC	-9	Anchorage	-9
LAX	-8	Los Angeles	-8
DEN	-7	Denver	-7
CHI	-6	Chicago	-6
NYC	-5	New York	-5
SDQ	-4	Santo Domingo	-4
—	•	St. John's	-3.5
RIO	-3	Rio de Janeiro	-3
FEN	-2	Fernando de Noronha	-2
PDL	-1	Azores	-1



* The displays of city code and the time difference from UTC are Subject to change depending on model.
* “-” between figures of the display of time difference shows that there is a time zone in that place.

HOW TO USE THE DAYLIGHT SAVING FUNCTION

Some areas have daylight savings where the time is set forward to gain an extra hour of sunlight. GPS Solar has an easy daylight saving function that turns daylight saving on or off.

- 1) Pull the crown out to the first click. The left indicator dial's hand will move to either DST (for Daylight Savings on) or the ‘.’ (for Daylight Savings off).
- 2) Press and hold BUTTON A for approx. 3 seconds to turn it either on or off.
- 3) The hands will move forward (on), or backward (off) one hour.
- 4) Push crown back in flush against the case.

FLIGHT MODE

GPS reception may influence the aeroplanes electronic equipment so GPS Solar has a flight mode you can activate when travelling on an aeroplane.

TURN FLIGHT MODE ON OR OFF

- 1) Press and hold BUTTON B for approx. 5 seconds.
- 2) The indicator hand in the left dial will move to the image of the plane located on the left side of the outer ring.
- 3) To turn flight mode off, press and hold BUTTON B for approx. 5 seconds. The hand will move back to the power reserve indicator.

CHANGING THE TIME IN THE DUAL TIME SUB DIAL

- 1) Pull the crown out to the first click.
- 2) Press BUTTON B. The day of the week hand will move around and point at the Δ symbol above the AM/PM indicator.
- 3) Turn the crown forward or backward and the second hand will point to the next timezone detailed on the inner ring, or city detailed on the bezel (model dependant) and instantly move the hands to that timezone.
- 4) The hands in the small dual time sub dial will move to the timezone selected.

NOTE – The subdial cannot be adjusted to a time outside the timezone.

- 5) Push the crown back in flush against the case.

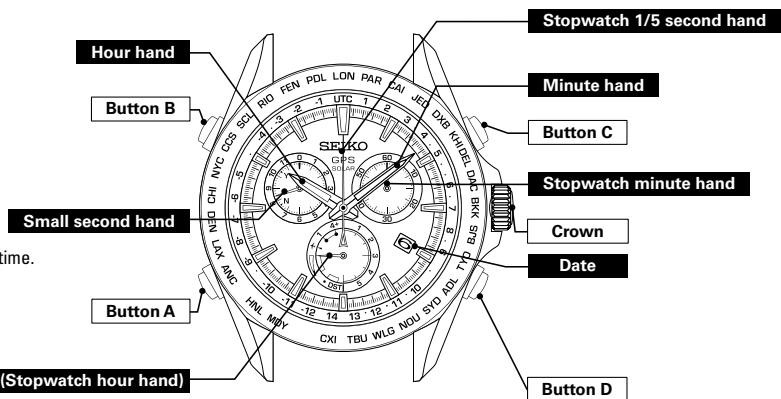
ADJUST DAYLIGHT SAVING TO THE DUAL TIME SUB DIAL

- 1) Pull the crown out to the first click
- 2) Press BUTTON B. The left indicator dial's hand will move to either DST (for Daylight Savings on) or the ‘.’ (for Daylight Savings off).
- 3) Press BUTTON A for approx. 3 seconds to turn it on or off. This must be done within 5 seconds of pulling the crown out.
- 4) Push the crown back in flush against the case.

SOLAR GPS CHRONOGRAPH (8X82)

- Solar – Powered by any light source.
- GPS Connectivity – Connect to satellites to pinpoint your position and adjust timezone accordingly*
- Flight Mode – turn on and off during flights.
- Perpetual Calendar – Adjusts the date automatically until February 2100 including leap years and short months
- Stopwatch – Measures 6 hours in 1/5th of a second increments with split/lap time.
- World Time
- Power Save Mode – Astron sleeps when not in sufficient light to conserve energy, and when exposed to light will wake up and relay to the current time.

* Time zone data as of January 2014. Changes to time zones occurring after this date are not programmed and manual adjustment may be required.



HOW TO ADJUST TIME USING GPS SIGNALS

1. Ensure you are outdoor under an open sky with good visibility. Away from trees, buildings bridges etc. Ensure Astron is out of flight mode – follow the steps detailed later in this guide.
2. Press and hold BUTTON B. The small second hand will move to the 60 second mark and stop briefly. It will then move to the 30 second mark. Once the small second hand moves to the 30 second mark release BUTTON B.
3. The small second hand will then move around the dial pointing at the number detailed on the outer ring of this indicating how many satellites it is connected to. A minimum of 4 satellites is required for a successful timezone adjustment. The GPS Signal and Time change can take up to 2 minutes.
4. After Astron connects to satellites the small second hand will move to Y for a successful connection, or N for an unsuccessful connection. The Y & N are indicated inside the small second hand dial.
5. The main hands on Astron will move to the correct time based on your position.

MANUAL TIME ADJUSTMENT & WORLD TIME FUNCTION

In places where the GPS timezone change is not possible Astron can be set manually without the need to connect to a satellite. This function can also be used as a World Timer.

1. Pull the crown out to the first click. The 1/5th of a second hand will move and point to the current timezone set.
2. Turn the crown forward or backward and the 1/5th of a second hand will point to the next timezone detailed on the inner ring, or city detailed on the bezel (model dependant) and instantly move the hands to that timezone.
3. Once you have selected your desired timezone push the crown back in flush to the case.

Use the below table to discover world timezones.

The following list shows the relationship between displays of the bezel and dial ring and time difference from the UTC. Please refer to the second hand positions below to set the time zone or to check the time zone setting.

DST (Daylight Saving Time) is used in time zones with a ★ mark. In the Lord Howe Island time zone in Australia with a ★ mark, the time is advanced by 30 minutes while DST (Daylight Saving Time) is in effect. This watch corresponds to DST in the Lord Howe Island time zone.

* Each time zone is based on data as of January 2014.



The displays of city code and the time difference from UTC are Subject to change owing to models. ** Between figures of the display of time difference shows that there is the time zone on that place.

City code	Display of time difference	City name	UTC ± hours
LON	UTC	★London	0
PAR	1	★Paris ★Berlin	+1
CAI	2	★Cairo	+2
JED	3	Jeddah	+3
—	★	★Tehran	+3.5
DXB	4	Dubai	+4
—	★	Kabul	+4.5
KHI	5	Karachi	+5
DEL	★	Delhi	+5.5
—	★	Kathmandu	+5.75
DAC	6	Dhaka	+6
—	★	Yangon	+6.5
BKK	7	Bangkok	+7
MDV	—11	Midway Islands	-11

City code	Display of time difference	City name	UTC ± hours
BJS	8	Beijing	+8
—	★	Eucla	+8.75
TYO	9	Tokyo	+9
ADL	★	Adelaide	+9.5
SYD	10	★Sydney	+10
—	★	Lord Howe Island	+10.5
NOU	11	Neouméa	+11
—	★	Norfolk Island	+11.5
WLG	12	★Wellington	+12
—	★	Chatham Islands	+12.75
TBU	13	Nuku'alofa	+13
CXI	14	Kiritimati	+14
—	—12	Baker Island	-12
MDV	—11	Midway Islands	-11

HOW TO USE THE DAYLIGHT SAVING FUNCTION

Some areas have daylight savings where the time is set forward to gain an extra hour of sunlight. Astron has an easy daylight saving function that turns daylight saving on or off.

1. Pull the crown out to the first click. The bottom dial's hand will move to either DST (for Daylight Savings on) or the ' ' (for Daylight Savings off).
2. Press and hold BUTTON B for approx. 3 seconds to turn it either on or off.
3. The hands will move forward (on), or backward (off) one hour.

FLIGHT MODE

GPS reception may influence the aeroplanes electronic equipment so GPS Astron has a flight mode you can activate when travelling on an aeroplane.

TURN FLIGHT MODE ON OR OFF

1. Press and hold BUTTON A for approx. 5 seconds.
2. The indicator hand in the bottom dial will move to the image of the plane located on the left side of the outer ring.
3. To turn flight mode off, press and hold BUTTON A for approx. 5 seconds. The hand will move back to the power reserve indicator

STOPWATCH MODE

When using the stopwatch the hands will move and behave differently to normal time mode.

- The large second hand becomes the 1/5th of a second hand
- The dial on the right side is the Stopwatch minute hand
- The bottom dial and indicators become the hour hand

1. To start the stopwatch press BUTTON C
2. To stop the stopwatch press BUTTON C
3. To reset the stopwatch press BUTTON D

SPLIT/LAP TIME

While the stopwatch is in operation press BUTTON D to split time. The stopwatch hands will freeze to indicate time. Press BUTTON D to release split time and the stopwatch will catch up and continue on to real time.

NOTE – While the stopwatch is in operation the GPS timezone function will not work.

SERVICE NETWORK FOR WARRANTY REPAIRS

New Zealand

Service Agent for Seiko, Pulsar, Lorus

SEIKO Australia Pty Ltd

226A Bush Road, Albany,

Auckland NZ 0632

PO Box 100037, North Shore,

New Zealand 0745

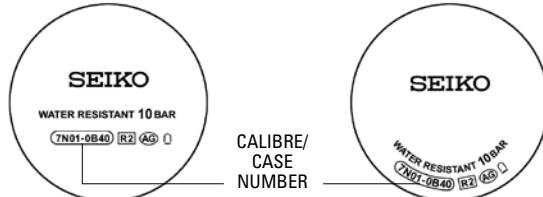
Phone: +(649) 415 5668

Fax: +(649) 415 5662

Email: admin@watchworld.co.nz



All SEIKO watches and clocks are covered by a 3 year guarantee. The guarantee covers defects in the material and workmanship from the date of purchase. As a SEIKO authorised dealer it is your responsibility to correctly fill in the guarantee with all the information required. The diagram on the right shows where to find the relevant information on the watch caseback.



In the case of incorrectly used guarantees, return them to SEIKO Australia or hand them to your SEIKO Australia Representative for free replacement, otherwise a charge for new guarantees will be applicable.

Global Service Network

SEIKO's dedication to quality extends throughout its service network in all corners of the world, extending the same dedication to excellence and the highest quality service to SEIKO customers everywhere.

For over 100 years SEIKO has stood for quality – in manufacture, design and service. Today, our SEIKO service centres strive to offer the highest standard of after-sales service and ensure lasting consumer satisfaction. In the Oceania Region, SEIKO Australia Pty Ltd has a network of branch offices, service centres and authorised service agents throughout Australia, New Zealand, Papua New Guinea, and the Pacific Islands.

For service, repairs and spare parts enquiries, please phone 0800 734 561 or email service@seiko.com.au



SERVICE

Replacement guarantee costs:

- Seiko, Pulsar & Lorus = \$5.50
- Astron & Grand Seiko = \$25.00
- Guarantee Exchange (One for one)
- for incorrectly completed and/or
damaged guarantees are replaced at no
cost if returned

All brands replacement policies: (Varied based on situation)

- Under warranty Lorus – replaced or
credited
- Manufacturing fault – not wear and tear

Seiko Quote Policy

for repairs

TRADE RETAIL

• Seiko & Michel Herbelin	\$41.00	\$70.00
• Pulsar	\$37.00	\$63.00
• Lorus	\$28.00	\$48.00

Quote not proceeded with will incur an
administration fee of \$16.00 (Including GST)
+ Postage & handling of \$11.00

SPARE PARTS

Links prices are varied and can be ordered
through spare parts.

Spare Parts contact information:

Toll Free: 1300 363 575
Direct number: 02 9805 4690
Fax: 02 9878 4770
Email: parts@seiko.com.au

SALES DESK

Small Order Charge:

- For orders supplied in full where the value
is less than \$250 exc. GST

Sales Desk Contact information:

Toll Free: 1300 300 776
Direct Number: 02 9805 4776
Fax: 02 9887 3736
Email: salesdesk@seiko.com.au

Damaged Stock Received:

Needs to be returned to Seiko head office
within 14 days of invoice.

Warranty Claims:

- **SERVICE WARRANTY CLAIM:** an **original valid guarantee** (completed with the correct calibre case, serial number and purchase date) or purchase receipt must be supplied (**NO PHOTOCOPIED WARRANTIES**).
- **STOCK:** repairs to be accepted as stock must state "stock" on the paperwork and be in **ORIGINAL CONDITION – NOT WORN BY CUSTOMER.**

Service Contact Information:

Toll Free: 1300 363 575

Direct: 02 9805 4575

Fax: 02 9887 3736

Email: service@seiko.com.au

Model Number	Price	Page
SSE041J	\$4500	13
SSE043J	\$4500	13
SSE055J	\$3200	13
SSE101J	\$3800	13
SSE139J	\$4000	14
SSE149J	\$3000	14
SSE153J	\$3200	14
SSE159J	\$2750	15
SSE161J	\$2750	15
SSE167J	\$4800	12
SSE169J	\$4700	12
SSE170J	\$4900	12
SSE174J	\$5200	12

NOTES

SEIKO

Sales orders & enquiries:
nzsales@seiko.co.nz

For sales enquiries within New Zealand
please phone 0800 734 561.

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226A Bush Road
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TRADE PRACTICES ACT 1974

Resale Price maintenance (S48 SS96 100). The prices shown in this catalogue are recommended retail prices as at 1st July 2018 and there is no obligation to comply with the recommendation. All prices are in New Zealand dollars and all prices include GST. All prices are subject to change without notice.

Seiko Australia Pty Ltd (ABN 63 000 797 946). SCATACNZ0718